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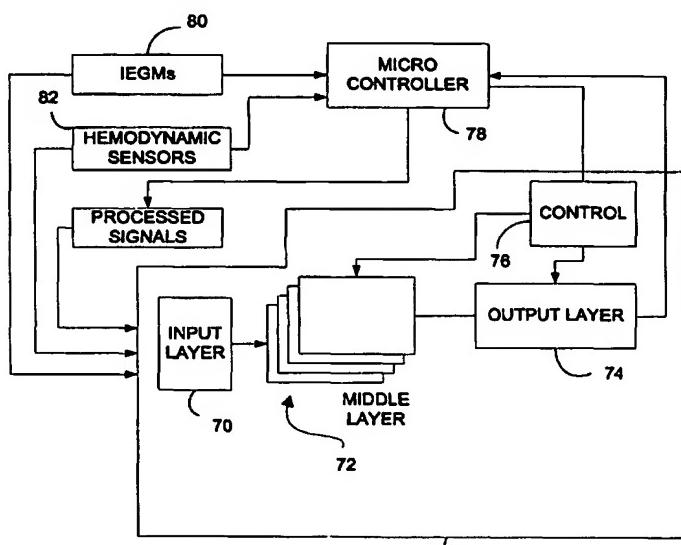
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(54) Title: ADAPTIVE RESYNCHRONIZATION THERAPY SYSTEM



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(57) Abstract: Abstract A system including a learning module and an algorithmic module for learning a physiological aspect of a patient body and regulating a the delivery a physiological agent to the body.. An implementation of the invention is an adaptive CRT device performing biventricular pacing in which the AV delay and VV interval parameters are changed dynamically according to the information supplied by the IEGM, hemodynamic sensor and online processed data, in order to achieve optimal hemodynamic performance. A learning module, preferably artificial neural network, performs the adaptive part of the algorithm supervised by an algorithmic deterministic module, internally or externally from the implanted pacemaker or defibrillator.

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